COE 197 ME08: DOCKER

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6. Networking

```
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docke</mark>r network ls
NETWORK ID
                  NAME
                             DRIVER
                                          SCOPE
79dc3ed30547
                  bridge
                             bridge
                                          local
27844c2eeba3
                  host
                             host
                                          local
defd1b8e8d15
                 none
                             null
                                          local
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docke</mark>r network inspect bridge
         "Name": "bridge",
"Id": "79dc3ed30547a8b564dead7d6c02cb88d433734514f2c62f9222d0ddf3cd126e",
         "Created": "2021-06-17T18:15:56.7613518Z",
"Scope": "local",
"Driver": "bridge",
```

```
.
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> docker run --rm -d -e PING_TARGET=172.17.0.2
          pinger brogelio/ping:1.0
7779f880c5ff91c96e92ca6e5c03f0f7e2e4d0a055157ee78078997c7b3fda2c
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> docker ps
CONTAINER ID
                                                     COMMAND
                                                                                           CREATED
                                                                                                                     STATUS
                                                                                                                                             PORTS
                                                                                                                                                            NAMES
                      TMAGE
CREATED STATUS PORTS
7779f880c5ff brogelio/ping:1.0 "sh -c 'ping $PING_T..." 14 seconds ago Up 11 seconds
f9d5282fedf1 brogelio/ping:1.0 "sh -c 'ping $PING_T..." 2 minutes ago Up 2 minutes
PS C:\Users\Jalen\Documents\[Git]\ME8_Contaction_and_Docker\6-networking> docker logs pinger
                                                                                                                                                            pinger
                                                                                                                                                            dummy
F3 C. (USE/S) Galen (Documents) (G15) (ME2_CONTAINER IZACION_and PPING 172.17.0.2 (172.17.0.2) 56(84) bytes of data.

64 bytes from 172.17.0.2: icmp_seq=1 ttl=64 time=0.121 ms

64 bytes from 172.17.0.2: icmp_seq=2 ttl=64 time=0.071 ms

64 bytes from 172.17.0.2: icmp_seq=3 ttl=64 time=0.071 ms
64 bytes from 172.17.0.2: icmp_seq=4 ttl=64 time=0.261 ms
64 bytes from 172.17.0.2: icmp_seq=5 ttl=64 time=0.377 ms
64 bytes from 172.17.0.2: icmp_seq=6 ttl=64 time=0.084 ms
64 bytes from 172.17.0.2: icmp_seq=7 ttl=64 time=0.077 ms
64 bytes from 172.17.0.2: icmp sea=8 ttl=64 time=0.093 ms
```

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PS C:\Users\Jalen\Documents\[6it]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> network create skynet
9280cd3f2d346bfcd66322fe61d0a458b4a9c038c577547b95491250b152b558
 PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> network ls
NETWORK ID
                  NAME
                                DRIVER
                                            SCOPE
79dc3ed30547
                   bridge
                                bridge
                                             local
 27844c2eeba3
                   host
                                host
                                             local
defd1b8e8d15
                   none
                                null
                                             local
9280cd3f2d34
                   skynet
                                bridge
                                            local
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking>
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> network inspect skynet
          "Name": "skynet",
"Id": "9280cd3f2d346bfcd66322fe61d0a458b4a9c038c577547b95491250b152b558",
           "Created": "2021-06-17T23:26:23.96117Z",
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> run --rm -d --name widgetdb -e POSTGRE
S_PASSWORD=password --network skynet -p 5432 postgres
b5ffdf1937f58de9cc324fc162ab1395f81b2b284956f0153ac2a40f0016885a
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b5ffdf1937f5 postgres "docker-entrypoint.s..." 12 hours ago Up 4 seconds 0.0.0.0:65509->5432/tcp widgetdb
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docke</mark>r run --rm -d --name gadgetdb -e POSTGRE
S_PASSWORD=password --network skynet -p 5432 postgres
a19da5c3dc88700f52244de11608d4a441964edde384392280fa7548f5d1adae
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES a19da5c3dc88 postgres "docker-entrypoint.s..." 12 hours ago Up 3 seconds 0.0.0.0:49677->5432/tcp gadgetdb b5ffdf1937f5 postgres "docker-entrypoint.s..." 12 hours ago Up 23 seconds 0.0.0.0:65509->5432/tcp widgetdb
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> exec -it widgetdb /bin/bash
root@b5ffdf1937f5:/# psql -U postgres
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.
postgres=# \q
root@b5ffdf1937f5:/# psql -U postgres -h gadgetdb
Password for user postgres:
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.
postgres=# \a
root@b5ffdf1937f5:/# exit
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docke</mark>r stop widgetdb gadgetdb
widgetdb
gadgetdb
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docke</mark>r run --rm -d --name widgetdb -e POSTGRE
S_PASSWORD=password --network skynet -p 5432:5432 postgres
6087fd38a6ddbe34daeaa7de86088924f626bfc5ab6200abd1cff73115431491
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> exec -it widgetdb /bin/bash
root@6087fd38a6dd:/# psql -U postgres -h localhost
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.
postgres=# \a
root@6087fd38a6dd:/# exit
exit
PS C:\Users\Jalen\Documents\[Git]\ME8 Containerization and Docker\6-networking> <mark>docker</mark> stop widgetdb
widgetdb
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking> <mark>docker</mark> ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\6-networking>
```